

ABSTRACT OF THE DISCLOSURE

A stage apparatus on which a laser interferometer is mounted includes a reticle stage (1) movable in three, X-, Y-, and  $\theta$ -axes, laser heads (8a - 8d) each for  
5 generating a laser beam, interferometers (9a - 9d) each of which is mounted on the stage (1) and splits the laser beam into reference and measurement beams, bar mirrors (11a - 11c) each of which is arranged outside the stage (1) and reflects the measurement beam, and  
10 detectors (10a - 10c) each for detecting the interference beam of the reference and measurement beams.